

PTO/SB/08A (08-03)

Substitute for form 1285 (Rev. 12-2002)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	10/637,847
Filing Date	August 7, 2003
First Named Inventor	Carl L. Hansen
Art Unit	1732
Examiner Name	Edmund H. Lee
Attorney Docket Number	20174C-004940US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
/	A54	US-2002-0037499 A1	03-28-2002	Quake et al.	
	A55	US-2002-0145231 A1	10-10-2002	Hansen et al.	
	A56	US-2003-0061687 A1	04-03-2003	Hansen et al.	
	A57	US-2003-0096310 A1	05-22-2003	Hansen	
	A58	US-2005-0019794 A1	01-27-2005	Nassef et al.	
/	A59	US-2005-0062196 A1	03-24-2005	Hansen et al.	
	A60	US-2005-0205005 A1	09-22-2005	Hansen et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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	C147	BLACK, HARVEY, "Tiny Technology Promises Tremendous Profits," The Scientist, Vol. 15, No. 21, 4 pages, October 29, 2001	
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	C171	THORSEN, TODD et al., "Microfluidic Large-Scale Integration," Science, Vol. 298, No. 5593, pp. 580-584, October 18, 2002	
	C172	VAN DER WOERD, MARK et al., "Lab-On-A-Chip Based Protein Crystallization," National Aeronautics and Space Administration and Caliper, pp. 1-27, October 25, 2001	
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Examiner Signature		Date Considered	9/11/06
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Sheet	4	of	4	Attorney Docket Number	20174C-004940US

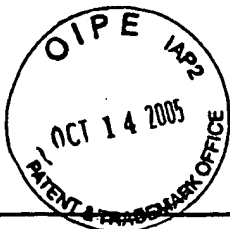
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<i>EL</i>	C178	YEH, JOANNE I., "A Manual Nanoscale Method For Protein Crystallization," Acta Crystallographica, Vol. D59, pp. 1408-1413, 2003	
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PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
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Sheet **1** of **13****Complete if Known**

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Filing Date	August 7, 2003
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		Number Kind Code ² (if known)			
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	A2	US-3,747,628	07-24-1973	Holster et al.	
	A3	US-4,046,159	09-06-1977	Pegourie	
	A4	US-4,119,368	10-10-1978	Yamakazi	
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1	A29	US-5,659,171	08-19-1997	Young et al.	
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	A31	US-5,681,024	10-28-1997	Lisec et al.	
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	B1	EP	0 592 094	A2	04-13-1994	International Business Machines Corporation		<input type="checkbox"/>
	B2	EP	0 703 364	A1	03-27-1996	Fraunhofer-Gesellschaft Zur Förderung Der Angewandten Forschung E.V.		<input type="checkbox"/>
	B3	EP	0 708 004	A2	04-10-1996	Bayer Corporation		<input type="checkbox"/>
	B4	EP	0 779 436	A2	08-18-1997	Frank T. Hartley		<input type="checkbox"/>
	B5	EP	0 829 360	A2	03-18-1998	Xerox Corporation		<input type="checkbox"/>
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	C1	"Biochips," Nature Biotechnology, Vol. 18, Supplement 2000, pp. IT43-IT44, 2000	
	C2	"Chapter 9: Microfluidic Devices," Micromachined Transducers Sourcebook, pp. 779-882, 1998	
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		Application Number	10/637,847		
		Filing Date	August 7, 2003		
		First Named Inventor	Carl L. Hansen		
		Art Unit	1732		
Examiner Name	Edmund H. Lee				
Sheet	6	of	13	Attorney Docket Number	20174C-004940US

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/637,847	
			Filing Date	August 7, 2003	
			First Named Inventor	Carl L. Hansen	
			Art Unit	1732	
			Examiner Name	Edmund H. Lee	
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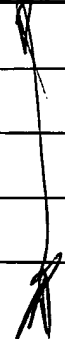
NON PATENT LITERATURE DOCUMENTS			
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	C125	VAN DE POL, F.C.M. et al., "Micro Liquid Handling Devices - A Review," Micro Systems Technologies, Vol. 90, pp. 799-805, 1990	
	C126	VERPOORTE, ELISABETH M. J. et al., "Three-Dimensional Micro Flow Manifolds For Miniaturized Chemical Analysis Systems," J. Micromech. Microeng., Vol. 7, pp. 246-256, 1994	
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	C128	VOGELSTEIN, BERT et al., "Digital PCR," Proc. Natl. Acad. Sci. USA, Vol. 96, pp. 9236-9241, 8/1999	
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	C137	XIA, YOUNAN et al., "Soft Lithography," Angew. Chem. Int. Ed., Vol. 37, pp. 551-575, 1998	
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	C141	YAZDI, NAVID et al., "Micromachined Inertial Sensors," Proceedings of IEEE, Vol. 86, No. 8, pp. 1640-1659, 8/1998	
	C142	YOUNG, A. M. et al., "Contoured Elastic-Membrane Microvalves For Microfluidic Network Integration," Journal of Biomechanical Engineering, Vol. 121, pp. 2-6, 2/1999	
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	6	Ward et al., Automatic Preparation of Protein Crystals Using Laboratory Robotics and Automated Visual Inspection, Journal of Crystal Growth 90 (1988), pp. 325-339.	

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PTO/SB/08B (08-03)

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	6	DUFFY et al. "Rapid Prototyping of Microfluidic Systems in Poly(dimethylsiloxane)", Analytical Chemistry, 1998, pp. 4974-4984, Vol. 70, No. 23.	
	7	LUFT et al., Microbatch Macromolecular crystallization in micropipettes - Structure, Function and Genetics, Journal of Crystal Growth, North-Holland Publishing Co., Amsterdam, NL., Vol. 196, No. 204, 1999, pp. 450-455.	
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	1	CARTER et al., Protein Crystallization Using Incomplete Factorial Experiments, the Journal of Biological Chemistry, 1979, pp. 12219-12223, Vol. 254, No. 23.	
	2	CARTER et al., Statistical Design of Experiments for Protein Crystal Growth and the Use of a Precrystallization Assay, Journal of Crystal Growth 90, 1998, pp. 60-73.	
	3	JARAMILLO et al., Crystallization and Cryocrystallography inside X-ray capillaries, J. Appl. Cryst. (2001). 34, pp. 365-370.	
	4	KAMHOLZ et al., Quantitative Analysis of Molecular Interaction in a Microfluidic Channel: The T-Sensor, Analytical Chemistry, Vol. 71, No. 23, December 1, 1999, pp. 5340-5347.	
	5	LIN et al., Convective-diffusive transport in protein crystal growth, Journal of Crystal Growth, 151 (1995), pp. 153-162.	
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	8	NERAD et al., Ground-Based Experiments on the Minimization of Convection During the Growth of Crystals From Solution, Journal of Crystal Growth, 1986, pp. 591-608, Vol. 75.	
	9	RUIZ et al., Agarose as Crystallization Media for Proteins I: Transport Processes, Journal of Crystal Growth, 2001, pp. 165-172, Vol. 232.	
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PTO/SB/08B (08-03)

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	1	ANDERSSON et al., Consecutive Microcontact Printing - Ligands for Asymmetric Catalysis in Silicon Channel, Sensors and Actuators, B, 3997, 2001, pp 1-7.	
	2	CHAYEN, The Role of Oil in Macromolecular Crystallization, Structure, 1997, Vol. 5, No. 10, pp 1269-1274.	
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	8	WU et al., MEMS Flow Sensors for Nano-Fluidic Applications, Sensors and Actuators A 89, 2001, pp 152-158.	

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PTO/SB/08A (08-03)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet	1	of	1
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